

**Official**

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21. In an Advanced Intelligent Network (AIN) including a service switching point (SSP) communicatively connected to a service control point (SCP), a method to set up and activate an internet call notification service for the user, comprising:

causing the SSP to receive notice of initiation of an internet session by the user;

causing the SSP to send a message to the SCP;

causing the SCP to create an internet call entry including a telephone number of the user;

causing the SCP to obtain an internet protocol address for the user;

causing the SCP to enter the internet protocol address in the internet call entry;

and

causing the SSP to set a termination attempt trigger with respect to the telephone number of the user,

whereby the internet call notification service is set up in response to the notice of initiation of the internet session so as to prompt creation of an internet call entry including the telephone number of the user, and

whereby the internet call notification service is activated in response to obtaining the internet protocol address for the user, inclusion of the internet protocol address in the internet call entry, and setting of the termination attempt trigger with respect to the telephone number of the user.

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22. The method of Claim 21¹⁵, wherein causing the SSP to receive the notice of the initiation of the internet session by the user comprises causing the SSP to receive a call directed to a feature code and a dialed number of an internet service provider.

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23. The method of Claim 22¹⁵, wherein causing the SSP to send the message to the SCP comprises causing the feature code to invoke the SSP to send the message to the SCP.

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²⁴_{40.} The method of Claim ¹⁵~~39~~, wherein the message from the SSP to the SCP comprises the feature code; and

wherein causing the SCP to create the internet call entry including the telephone number of the uses comprises causing the feature code in the message to invoke the SCP to create the internet call entry.

²⁵_{41.} The method of Claim ¹⁵~~37~~, further comprising:
causing the SCP to send confirmation of the activation of the internet call notification service to the user.

B1 ²⁶_{42.} The method of Claim ¹⁵~~37~~, wherein the SCP obtains the internet protocol address for the user from a computer of the user.

²⁷_{43.} The method of Claim ¹⁵~~37~~, wherein the SCP receives the internet protocol address for the user from an internet service provider.

²⁸_{44.} The method of Claim ¹⁵~~42~~, wherein the internet protocol address received from the computer of the user and included in the internet call entry is assigned to the computer of the user for the internet session.

²⁹_{45.} The method of Claim ¹⁵~~37~~, further comprising:
causing the SSP to monitor the internet session for conclusion of the internet session;

in response to the conclusion of the internet session, causing the SSP to send information of the conclusion to the SCP; and

causing the SCP in response to the information of the conclusion to remove the internet protocol address of the user.

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³⁰
46. The method of Claim ¹⁵45, wherein causing the SCP to remove the internet protocol address of the user comprises causing the SCP to remove the internet call entry.

³¹
47. The method of Claim ¹⁵37, wherein the SCP is operative to receive a default number with the internet protocol address for the user; and
wherein the SCP is operative to enter the default number in the internet call entry.

³²
48. In an Advanced Intelligent Network (AIN) including a service switching point (SSP) communicatively connected to a service control point (SCP), a method to provide an internet call notification service to the user, comprising:

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causing a call to a telephone number of the user received at the SSP to invoke a trigger;

in response to the invocation of the trigger, causing the SSP to query the SCP;

causing the SCP to determine the user is engaged in an internet session on a computer of the user; and

causing the SCP to send a data message regarding the call to the computer of the user.

³³
49. The method of Claim ¹⁵48, wherein the query from the SSP to the SCP comprises a calling number for the call; and

further comprising:

causing the SCP to use the calling number to retrieve calling name information; and

causing the SCP to include the calling name information in the data message regarding the call sent to the computer of the user.

³⁴
50. The method of Claim ¹⁵49, wherein the SCP retrieves the calling name information from a calling name database.

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³⁵
~~51.~~ The method of Claim ¹⁵~~49~~, wherein the SCP retrieves the calling name information from another SCP including a calling name database.

³⁶
~~52.~~ The method of Claim ¹⁵~~48~~, wherein the query from the SSP to the SCP comprises the telephone number of the user; and

wherein the SCP determines the user is engaged in the internet session by using the telephone number to find an internet protocol address of the user.

³⁷
~~53.~~ The method of Claim ¹⁵~~48~~, wherein the SCP comprises an internet call entry relating to the user;

wherein the internet call entry comprises the internet protocol address of the user; and

wherein the SCP determines the user is engaged in the internet session by using the telephone number to find the internet call entry comprising the internet protocol address of the user.

³⁸
~~54.~~ The method of Claim ¹⁵~~48~~, wherein the SCP sends the data message regarding the call to the computer of the user by using an internet protocol address of the user.

³⁹
~~55.~~ A method for a user to set-up and activate a call notification service to provide the user with notice of calls received for the user's telephone number while the user is using a line associated with the telephone number to access the internet, the method comprising:

making a call on the line associated with the telephone number in a telephone network and with the call being directed to a pre-pended code and a number of an internet service provider so as to make an internet connection;

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in response to use of the pre-pended code in the telephone network, receiving an inquiry for an internet protocol address of the user over a data network from a service control point (SCP) in the telephone network; and

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responding to the inquiry by sending the internet protocol address of the user over the data network to the SCP,

whereby use of the pre-pended code in the call prompts the SCP to set-up the call notification service for the user, and

whereby the use of the pre-pended code also prompts the SCP to request the internet protocol address of the user so as to activate the call notification service.

40/56. The method of Claim 15, wherein the pre-pended code is a feature code.
